

Lumidigm® V-Series Fingerprint Modules



Benefits

- The industry's best fingerprint images
- Meets high-performance challenges
- Designed for easy integration
- Superior liveness detection protects against fake and spoof fingerprints
- Eliminates failure to enroll (FTE) and failure to acquire (FTA) headaches
- Enables high throughput
- Requires minimal maintenance
- Yields a high return on investment for integrators and end-users

Features

- Patented multispectral imaging technique looks at and beneath the skin surface, simultaneously
- Flexible, powerful device outputs
 - Image • Template • Match score
- Compact design
- State-of-the-art liveness detection technology adaptable against future spoof threats
- Expansive operating range
 - -10 to 60°C, wet or dry
- 500 dpi

Offering unparalleled performance, integration options, and industry-leading liveness detection... in any setting!

Lumidigm V-Series fingerprint modules unleash an individual's subsurface fingerprint to increase biometric performance and make your application more secure and reliable. The V-Series returns superior images on anyone, anytime, in any environment.

Superior performance

V-Series fingerprint modules will enhance the throughput and accuracy of any application. High-quality images are captured by Lumidigm modules even when fingerprint ridges are hard to distinguish due to genetics, age, dirt, finger placement, or environmental conditions. Lumidigm V-Series modules can easily enroll and verify ALL people! The V-Series modules greatly reduce management hassles along with end-user frustration.

Flexible integration

The V-Series modules are small and lightweight and easily integrated with existing systems. Multiple modes of operation and communication interfaces are available in the V-Series. Image, template or score are available as outputs. Designed for easy integration into any system, V-Series modules rise to the top with accurate, high-quality images and solve your performance problems, anytime, anywhere.

Superior liveness detection

Eliminate performance problems associated with conventional fingerprint sensors. V-Series modules protect against fake and spoof fingerprints by capturing fingerprint data from the surface and subsurface of the finger. Using the industry's best liveness detection technology, we provide the most secure and accurate sensors available.

SPECIFICATIONS



V30x Modules		V31x Modules
IMAGING SYSTEM		
Technology	Patented Lumidigm optical multispectral imaging	
Image resolution / bit depth	500 dpi / 8-bit, 256 grayscale	
Platen area	0.7" x 1.1" (18mm x 28mm) ellipse	
BIOMETRIC FUNCTIONS		
Image out	ANSI 381 compliant	
Template out	ANSI 378 compliant	
Score or verification (1:1)	Requires ANSI 378 template input	
Identification (1:N)	Available (V30x-30 only)	Uses ANSI 378 templates as input
Latent detection	Included	
Latent protection	Included	
TEMPLATE STORAGE		
Verification mode (1:1)	Up to 1000	Unlimited
Identification mode (1:N)	Up to 400 (V30x-30 only)	Up to 1000 users per group, unlimited groups
BIOMETRIC PERFORMANCE		
Finger placement to image	1.3 sec. (typical)	800 ms - 1 sec (typical)
Finger placement to template / score	2.0 sec. (typical)	900 ms - 1.1 sec (typical)
Finger placement to identification	2.1 sec. (typical, V30x-30 only)	950 ms - 1.1 sec (typical)
ENVIRONMENTAL <i>Note: biometric performance is maintained throughout the operating ranges specified.</i>		
Ingress protection at platen	IP65	
OPERATING WITH ENCLOSURE		
Temperature	-10 to 60°C; cold range can be extended with the addition of a heater	
Humidity	0-100% RH condensing	
OPERATING WITHOUT ENCLOSURE		
Temperature	0 to 60°C	
Humidity	0-95% RH non-condensing	
ESD Immunity	IEC 61000-4-2 Level 4+/-15 kV Air	
INTERFACE		
USB 2.0	480 Mbps high-speed	
RS-232	115.2 Kbps	n/a
Operating systems supported	Windows 8 / 8 Embedded (32/64-bit) Windows 7 / 7 Embedded (32/64-bit), Windows XP / XP Embedded Linux Android	Windows 8 / 8 Embedded (32/64-bit) Windows 7 / 7 Embedded (32/64-bit) Windows XP / XP Embedded Linux (Intel 32-bit and 64-bit)
Encryption	n/a	Encrypted video for privacy/playback protection
FORM FACTOR		
Overall dimensions	2.68"W x 2.61"D x 2.02"H (6.8 cm x 6.6 cm x 5.1 cm)	
Housing	Polycarbonate plastic, glass fiber reinforced; platen area is IP65	
POWER SUPPLY REQUIREMENTS		
Supply current – operational	+5 VDC 500 mA (peak)	+5 VDC 300 mA (peak)
Supply current – idle	+5 VDC 100 mA (typical)	+5 VDC 100 mA (typical)
STANDARDS COMPLIANCE		
Interoperability	ANSI 378, ISO 19794-2:2005, ANSI 381, ISO 19794-4:2005, NFIQ compliant, MINEX-certified algorithm	
Device certifications	CE, FCC Part 15 Class B, EN 60950, IEC 62471, RoHS, DEA EPCS, Certified support for thin clients	
MINIMUM SYSTEM REQUIREMENTS		
Interface	USB 1.1 or RS-232	High-speed USB 2.0 (480 Mbps)
Memory	n/a	64 MB free RAM
Operating system	n/a	Supported OS required



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